

### IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of forming a gate oxide on a transistor body region, comprising:  
evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table; and  
oxidizing the metal layer to form a metal oxide layer on the body region.
2. (Original) The method of claim 1, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.
3. (Canceled)
4. (Original) The method of claim 3, wherein electron beam evaporation depositing the metal layer includes electron beam evaporation of a 99.9999% pure metal target material.
5. (Original) The method of claim 1, wherein evaporation depositing the metal layer includes evaporation depositing at an approximate substrate temperature range of 150 - 400 °C.
6. (Original) The method of claim 1, wherein oxidizing the metal layer includes oxidizing at a temperature of approximately 400 °C.
7. (Original) The method of claim 1, wherein oxidizing the metal layer includes oxidizing with atomic oxygen.
8. (Original) The method of claim 1, wherein oxidizing the metal layer includes oxidizing using a krypton (Kr)/oxygen (O<sub>2</sub>) mixed plasma process.

9. (Currently Amended) A method of forming a gate oxide on a transistor body region, comprising:

evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table; and

oxidizing the metal layer using a krypton(Kr)/oxygen (O<sub>2</sub>) mixed plasma process to form a metal oxide layer on the body region.

10. (Original) The method of claim 9, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.

11. (Canceled)

12. (Original) The method of claim 11, wherein electron beam evaporation depositing the metal layer includes electron beam evaporation of a 99.9999% pure metal target material.

13. (Original) The method of claim 9, wherein evaporation depositing the metal layer includes evaporation depositing at an approximate substrate temperature range of 150 - 400 °C.

14. (Currently Amended) A method of forming a transistor, comprising:

forming first and second source/drain regions;

forming a body region between the first and second source/drain regions;

evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table;

oxidizing the metal layer to form a metal oxide layer on the body region; and

coupling a gate to the metal oxide layer.

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15. (Original) The method of claim 14, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.
16. (Canceled)
17. (Original) The method of claim 16, wherein electron beam evaporation depositing the metal layer includes electron beam evaporation of a 99.9999% pure metal target material.
18. (Original) The method of claim 14, wherein evaporation depositing the metal layer includes evaporation depositing at an approximate substrate temperature range of 150 - 400 °C.
19. (Original) The method of claim 14, wherein oxidizing the metal layer includes oxidizing at a temperature of approximately 400 °C.
20. (Original) The method of claim 14, wherein oxidizing the metal layer includes oxidizing with atomic oxygen.
21. (Original) The method of claim 14, wherein oxidizing the metal layer includes oxidizing using a krypton (Kr)/oxygen (O<sub>2</sub>) mixed plasma process.
22. (Currently Amended) A method of forming a memory array, comprising:  
forming a number of access transistors, comprising:  
    forming first and second source/drain regions;  
    forming a body region between the first and second source/drain regions;  
    evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table;  
    oxidizing the metal layer to form a metal oxide layer on the body region;  
    coupling a gate to the metal oxide layer;

forming a number of wordlines coupled to a number of the gates of the number of access transistors;

forming a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors; and

forming a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors.

23. (Original) The method of claim 22, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.

24. (Canceled)

25. (Original) The method of claim 24, wherein electron beam evaporation depositing the metal layer includes electron beam evaporation of a 99.9999% pure metal target material.

26. (Original) The method of claim 22, wherein evaporation depositing the metal layer includes evaporation depositing at an approximate substrate temperature range of 150 - 400 °C.

27. (Original) The method of claim 22, wherein oxidizing the metal layer includes oxidizing at a temperature of approximately 400 °C.

28. (Original) The method of claim 22, wherein oxidizing the metal layer includes oxidizing with atomic oxygen.

29. (Original) The method of claim 22, wherein oxidizing the metal layer includes oxidizing using a krypton (Kr)/oxygen (O<sub>2</sub>) mixed plasma process.

30. (Currently Amended) A method of forming an information handling system, comprising:  
forming a processor;  
forming a memory array, comprising:

forming a number of access transistors, comprising:

- forming first and second source/drain regions;
- forming a body region between the first and second source/drain regions;
- evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table;
- oxidizing the metal layer to form a metal oxide layer on the body region;
- coupling a gate to the metal oxide layer;

forming a number of wordlines coupled to a number of the gates of the number of access transistors;

forming a number of sourcelines coupled to a number of the first source/drain regions of the number of access transistors;

forming a number of bitlines coupled to a number of the second source/drain regions of the number of access transistors; and

forming a system bus that couples the processor to the memory array.

31. (Original) The method of claim 30, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.

32. (Canceled)

33. (Original) The method of claim 32, wherein electron beam evaporation depositing the metal layer includes electron beam evaporation of a 99.9999% pure metal target material.

34. (Original) The method of claim 30, wherein evaporation depositing the metal layer includes evaporation depositing at an approximate substrate temperature range of 150 - 400 °C.

35. (Original) The method of claim 30, wherein oxidizing the metal layer includes oxidizing at a temperature of approximately 400 °C.

36. (Original) The method of claim 30, wherein oxidizing the metal layer includes oxidizing with atomic oxygen.

37. (Original) The method of claim 30, wherein oxidizing the metal layer includes oxidizing using a krypton (Kr)/oxygen (O<sub>2</sub>) mixed plasma process.

38. - 50. (Canceled)

51. (Currently Amended) A transistor formed by the process, comprising:  
forming a body region coupled between a first source/drain region and a second source/drain region;  
evaporation depositing a substantially amorphous and substantially single element metal layer on the body region using electron beam evaporation, the metal being chosen from the group IVB elements of the periodic table;  
oxidizing the metal layer to form a metal oxide layer on the body region; and  
coupling a gate to the metal oxide layer.

52. (Original) The transistor of claim 51, wherein evaporation depositing the metal layer includes evaporation depositing a zirconium layer.

53. (Canceled)

54. (Original) The method of claim 51, wherein oxidizing the metal layer includes oxidizing using a krypton (Kr)/oxygen (O<sub>2</sub>) mixed plasma process.

55. (Previously Presented) A method of forming a gate oxide on a transistor body region, comprising:  
electron beam evaporation depositing a substantially amorphous and substantially pure zirconium layer on the body region; and  
oxidizing the zirconium layer to form a metal oxide layer on the body region.

56. (Previously Presented) The method of claim 55, wherein oxidizing the zirconium layer includes oxidizing a zirconium layer to form an oxide with a conduction band offset in a range of approximately 5.16 eV to 7.8 eV.

57. - 61. (Canceled)